

Sensitive Area Determination Checklist

Williams Production RMT Company		
Person(s) Conducting Field Inspection	Jennifer Belcastro	07/21/11
	Environmental Scientist	
Site Information		
Location:	KP 22-16	Time: 1050
Type of Facility:	Existing Well Pad	
Environmental Conditions	Sunny; dry ground conditions.	
Temperature (°F)	85°F	

Has the proposed, new or existing location been designated as a sensitive area?

☐ Yes ☒ No

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☐ Yes ☒ No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands:

If yes, describe location relative to facility:

2. Could a potential release from the facility reach surface water features?

☐ Yes ☒ No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low.

3. Is the potential to impact surface water from a facility release high or low?

☐ High ☒ Low

GROUNDWATER

1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?

☒ Yes ☐ No

If yes, List the pit type(s): Drilling pit

2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?

☐ Yes ☒ No

3. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0 \times 10^{-7}$ cm/sec?

☐ Yes ☒ No

4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?

☐ Yes ☒ No

5. Is the proposed facility located within a 100 year floodplain?

☐ Yes (*Sensitive Area*) ☒ No (*If no, proceed to question #6.*)

6. Is the depth to groundwater known?

☐ Yes (*If yes, follow instructions provided in 6(a) of this section.*)

☒ No (*If no, follow instructions provided in 6(b) of this section.*)

- (a) If yes, could a potential release from the proposed facility reach groundwater?

☐ Yes ☐ No

If yes, explain:

- (b) If no:

(i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.

(ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.

7. Is the potential to impact ground water from the facility in the event of a release high or low?

☐ High ☒ Low

Additional Comments:

As stated in the surface water section of this sensitive area determination, there are no surface water features within a ¼ mile of the facility. The facility, as it is currently constructed, limits flow direction of potential release to the northwestern side of the facility. Best Management practices (BMPs) should be installed on this side of the facility in the form of an earthen perimeter berm along the edge of the facility and a diversion ditch, if feasible, along fill slope edge. These should be monitored and maintained to ensure site containment in the event of a release.

The State Engineer's Office and USGS records were reviewed and no records were revealed that would provide additional information pertaining to the depth to groundwater. The facility resides in a grass field on top of Jolly Mesa which is fairly narrow. There were no indicators during the site investigation which suggested the presence of shallow ground water. No seeps or springs were identified along the hillside to the east of the facility indicating that groundwater may be present

Based on the information collected during the site visit and desktop review, the potential to impact surface water features, actual flowing surface water, and groundwater has been deemed low. Therefore the facility should be designated as being in a non-sensitive area.

Inspector Signature(s):  Date: 9/23/2011

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 Date: 7/21/2011

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